

## **Abstract**

### **CONFIGURED AND SIZED CANNULA**

A dilator retractor and the dilators that are used for minimally invasive spinal surgery or other surgery are configured to accommodate the anatomical structure of the patient as by configuring the cross sectional area in an elliptical shape, or by forming a funnel configuration with the wider end at the proximate end. In some embodiments the distal end is contoured to also accommodate the anatomical structure of the patient so that a cylindrically shaped, funnel shaped, ovoid shaped dilator retractor can be sloped or tunneled to accommodate the bone structure of the patient or provide access for implants. The dilator retractor is made with different lengths to accommodate the depth of the cavity formed by the dilators.